

**Attachment to Overview of Chlorpyrifos Revised Risk Assessment
June 8, 2000**

Table 2: Summary of Data Used in Acute Dietary Exposure Assessment

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
almonds, fresh/cooked/dried/frozen	0.2	29	all FF 1.0	PB	Field Trial
apples, fresh	1.5	53	N/A	NB	PDP, single serving and decomposited
file #2 apples, fresh NFS market basket					NFS
apples, cooked, except boiled			DEEM default = 1	NB	from fresh apples. 0.15x peeling factor
apples, boiled				PB	NFS - apple sauce
apples, canned/frozen			DEEM default = 1	PB	NFS - apple sauce
fresh apples, dried			DEEM default = 8.0	B	from fresh apples
apples, dried		53	DEEM default = 8.0	PB	from fresh apples
file #2 apples, dried NFS market basket			DEEM default = 8.0	PB	from fresh apples
apple juice			Direct Monitoring	PB	NFS
apple juice concentrate			DEEM default = 3.0	PB	from apple juice
asparagus, fresh	0.3	12	N/A	NB	FDA
asparagus, cooked			DEEM default = 1	NB	from asparagus
asparagus, canned/frozen			DEEM default = 1	PB	from asparagus
bananas and plantains	0.01 in pulp	14%	N/A	NB	PDP

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
banana juice			DEEM default = 1	PB	from bananas
beans, succulent	0.05	1	N/A	PB	PDP
beans, succulent cooked/processed		1	DEEM default = 1	PB	PDP
beans succulent broad	0.05	1	N/A	NB	from green beans
beans, unspecified	0.05	1	N/A	NB	from fresh green beans
beans, dried	0.05	1	N/A	B	tolerance
beans, dried cooked/processed		1	DEEM default = 1	B	tolerance
beef products and byproducts	0.05		N/A	NB	NFS - ground beef
beef fat	0.3		N/A	NB	from beef
bok choy	1.0		N/A	NB	FDA
broccoli, fresh	1.0	51	N/A	NB	PDP
Chinese broccoli	1.0	51	N/A	NB	from broccoli
broccoli, cooked			DEEM default = 1	PB	from broccoli
broccoli, canned/frozen			DEEM default = 1	PB	from broccoli
Brussels sprout	1.0	91	N/A	PB	FDA
savoy cabbage	1.0		N/A	NB	from cabbage
cherry juice		14	grape juice factor = 0.3	PB	from fresh, tart cherries
chicken products and byproducts	0.05		N/A	NB	AR
chicken fat			N/A	NB	AR
collards, fresh	1.0	13	N/A	NB	FDA
collards, cooked			DEEM default = 1	NB	from collards
collards, canned/frozen			DEEM default = 1	PB	from collards
corn grain	0.05	8	0.22 (from open literature)	B	field trials

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
corn grain, cooked/processed			0.22 (from open literature)	B	from corn grain
corn grain bran			DEEM default = 1	B	from corn grain
corn grain sugar			0.05 (prior EPA PF)	B	from corn grain
corn oil		8	processing study 4.5	B	from corn grain
cottonseed oil		6 % of RAC cotton	processing study 0.375	B	1995 AR
cranberries, fresh	1.0	60	N/A	PB	Cranberry Institute
cranberries, cooked/canned/frozen		21	DEEM default = 1	PB	from fresh cranberries
cranberry juice concentrate			DEEM ratio = 1	PB	from fresh cranberries
cranberry juice			grape juice factor 0.3	PB	from fresh cranberries
cucumbers, fresh	0.05	1	N/A	NB	FDA
cucumbers, cooked			DEEM default = 1	NB	from fresh cucumbers
cucumbers, canned/pickled			DEEM default = 1	PB	from fresh cucumbers
eggs, whole	0.01		N/A	NB	AR
egg whites			N/A	B	AR
egg yolks			N/A	B	AR
figs	0.01	1	N/A	PB	tolerance
filberts, fresh/cooked	0.2	9	all FF 1.0	PB	from almonds and walnuts
gelatin			DEEM default = 1	B	from beef
goat products and by products	0.05		N/A	NB	from beef
goat fat	0.3		N/A	NB	from beef
grapes, cooked/canned/frozen			DEEM default 1	PB	from fresh grapes

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
dried grapes (raisins)			0.17 (previous EPA PF)	PB	from fresh grapes
grape leaves		1	N/A	PB	from grapes
grapes, juice			0.3 (previous EPA PF)	PB	from fresh grapes
grapes, wine			0.02 (from open literature)	PB	from grapes
grapefruit, fresh peeled fruit	1.0	16	N/A	NB	from fresh oranges
grapefruit, canned/frozen			DEEM default = 1	PB	from fresh oranges
grapefruit juice			1.0 from OJ	B	from orange juice (NFS)
grapefruit juice concentrate			DEEM ratio = 3.93	PB	from orange juice
grapefruit peel			8 (from open literature)	PB	from fresh oranges
grapefruit peel			N/A	PB	from fresh oranges
horsemeat	0.05		N/A	NB	from beef
kale, fresh	1.0	1	N/A	NB	FDA
kale, cooked			DEEM default = 1	NB	from kale
kale, canned			DEEM default = 1	PB	from kale
kiwi, fresh	2.0		0.15 X peeling factor	NB	from FDA
kiwi, canned/frozen				PB	from fresh kiwi
kohlrabi	1.0	1	N/A	NB	from collards
kumquats	1.0	32	N/A	PB	from fresh oranges
limes, fresh peeled fruit	1.0	32	N/A	NB	from fresh oranges

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
limes, peel			15 (from oranges)	PB	from fresh oranges
limes, juice			1.0 from OJ	PB	from orange juice
lemons, fresh peeled fruit	1.0	43	N/A	NB	from fresh oranges
lemons, canned/frozen			DEEM default = 1	PB	from fresh oranges
lemons, juice			1.0 from OJ	PB	from orange juice
lemon juice concentrate			DEEM ratio = 5.7	PB	from orange juice
lemon, peel, canned/frozen			15 (from oranges)	PB	from fresh oranges
lemon, peel, fresh or cooked			15 (from open literature)	PB	from fresh oranges
lentils, cooked	0.05	1	N/A	B	from dried beans
mung bean sprouts	0.05	1	N/A	N	from fresh green beans
mustard greens	1.0	1	N/A	NB	from collards
nectarines	0.05	11	N/A	NB	from fresh peaches
onions, dry bulb, cooked			DEEM default = 1	NB	from fresh onions
onions, dry bulb, fresh	0.5	19	N/A	NB	FDA
oranges, fresh peeled fruit	1.0	54	N/A	NB	PDP, oranges for eating fresh
oranges, cooked		10	DEEM default = 1	NB	PDP, oranges for eating fresh
oranges, canned/frozen		10	DEEM default = 1	PB	PDP, oranges for processing
orange peel, canned/frozen		54, 10	15 (from open literature)	PB	from oranges for processing
orange peel, cooked		54, 10	15 (from open literature)	PB	from fresh oranges

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
orange peel, fresh		54, 10	15 (from open literature)	PB	from fresh oranges
orange juice		10	direct NFS	PB	NFS
peas, dried	0.05	1	N/A	B	tolerance
peas, dried cooked/processed		1	DEEM default = 1	B	tolerance
pecans, fresh/cooked	0.2	36	N/A	PB	from almonds and walnuts
pears, fresh	0.05	23	N/A	NB	PDP (single fruits analyzed)
pears, canned/frozen			DEEM default = 1	PB	PDP
pears, dried			DEEM default = 6.25	PB	from fresh pears
pear juice			DEEM default	PB	from fresh pears
peaches, fresh	0.05	17	N/A	NB	PDP
peaches, cooked			DEEM default = 1	NB	PDP
peaches, canned/frozen			DEEM default = 1	PB	PDP
peaches, dried			DEEM default = 7.0	PB	from fresh peaches
peach juice			0.3 from grapes		from fresh peaches
peach juice			DEEM default	PB	from fresh peach
peanuts, butter			use NFS data directly	PB	NFS
peanut oil			processing study 2.0	B	1995 AR
peanuts, cooked/frozen			DEEM default	PB	from peanuts
peanuts, hulled	0.2	15	N/A	PB	FDA

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
peppermint oil		27% of RAC mint	processing study 10	B	field trial
peppers, fresh sweet	1.0	3	N/A	NB	FDA
peppers, cooked/processed sweet	not a RAC		DEEM default = 1	PB	from bell peppers
peppers, fresh hot	1.0		N/A	NB	from bell peppers
peppers, hot, cooked			DEEM default = 1	NB	from bell peppers
peppers, hot, canned/frozen/pickled			DEEM default = 1	PB	from bell peppers
peppers, other	1.0		N/A	NB	from bell peppers
pork fat	0.2		N/A	NB	NFS - pork sausage
pork products and byproducts	0.05		N/A	NB	from beef
poultry fat			N/A	NB	AR
poultry products and byproducts	0.1		N/A	NB	calculated AR
plums, fresh	0.05	6	N/A	NB	from fresh peaches
plums, cooked			DEEM default = 1	NB	from fresh peaches
plums, canned/frozen			DEEM default = 1	PB	from fresh peaches
prunes (dried plums)			DEEM default = 5.0	PB	from fresh peaches
plum/prune juice			DEEM default = 1.4	PB	from fresh peaches
pumpkins, fresh	0.05	1	N/A	NB	from fresh cucumbers
pumpkins, cooked			DEEM default = 1	NB	from fresh cucumbers
pumpkins, canned	not a RAC		DEEM default = 1	PB	from fresh cucumbers

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
radish greens		19	soybean oil		
radishes oriental	2.0	19	soybean, other		1
Japanese radishes	2.0	19	N/A	NB	from sweet potato
rutabagas (roots)	0.5	19	soybeans (seeds), fresh	0.3	1
sheep fat	0.3		N/A	NB	from beef
sheep products and byproducts	0.05		N/A	NB	from beef
snowpeas	0.05	1	N/A	PB	from succulent beans
soybean flour, defatted			DEEM = 1 default	B	from soybeans
soybean flour, full fat			DEEM default = 1	B	from soybeans
soybean flour, low fat			DEEM default = 1	B	from soybeans
soybean oil			processing study 0.14	B	1995 AR
soybean, other		1		B	from soybeans
soybeans (seeds), fresh	0.3	1	N/A	B	field trials
soybean (seeds) cooked/processed			DEEM default = 1	B	from soybeans
soybean sprouts	0.3	1	soybean (seeds) cooked/processed		
soy protein isolate, further cooked/processed			DEEM default = 1	B	from soybeans
soy protein isolate			DEEM default = 1	B	from soybeans
spearmint oil		27% of RAC mint	processing study 10	B	field trial
strawberry juice			0.3 (from grape juice)	PB	from strawberries

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
sugar beets (roots)	1.0	10	0.1 (from open literature)	B	from sweet potatoes
sunflower oil			processing study 1.0	B	1995 AR
sunflower seeds	0.25	1	N/A	PB	field trials
sweet peas, fresh	0.05	1	N/A	PB	FDA
sweet peas, cooked			DEEM default = 1	PB	PDP
sweet peas, canned/frozen			DEEM default = 1	PB	PDP
sweet potato, fresh	0.05	19	N/A	NB	PDP
sweet potato, cooked			DEEM default = 1	NB	from sweet potatoes
sweet potato, canned/frozen			peeling factor 0.15 for canned	PB	from sweet potatoes
sweet potato leaves		19	N/A	NB	from collards
tangerines, fresh peeled fruit	1.0	32	N/A	NB	from fresh oranges
tangerines, canned/frozen			DEEM default = 1	PB	from oranges for processing
tangerine juice concentrate			DEEM ratio = 3.2	PB	from orange juice
tangerine juice		32	1.0 from OJ	PB	from orange juice
tangelos	1.0	32	N/A	NB	from fresh oranges
tomatoes, dried			14.3	PB	from tomatoes
tomatoes, fresh	1.0	3 (US) 26 (Import)	N/A	NB	PDP
tomatoes, whole cooked			DEEM default = 1	NB	from fresh tomatoes
tomatoes, whole canned/frozen			DEEM default = 1	PB	from fresh tomatoes
tomato juice			0.03 (prior EPA PF)	PB	from fresh tomatoes

Commodity	Tolerance (ppm)	Max % Crop Treated	Processing Factor	Sample Composition (NB, PB or B)	Source of Data for Assessment (PDP, FDA, etc)
tomato, puree			0.1 (prior EPA PF)	PB	from fresh tomatoes
tomato, paste			0.1 (prior EPA PF)	PB	from fresh tomatoes
tomato, catsup			0.1 (prior EPA PF)	PB	from fresh tomatoes
turkey fat	0.05		N/A	NB	AR
turkey products and byproducts	0.1		N/A	NB	AR
turnip greens	0.3	19	N/A	PB	from collards
turnips (roots)	1.0	19	N/A	NB	from sweet potatoes
walnuts, fresh/cooked	0.2	39	all FF 1.0	PB	Field Trial
walnut oil			DEEM default = 1	B	from almonds and walnuts
wheat grain	0.5	1	N/A	B	FDA
wheat grain, cooked/processed			DEEM default = 1	B	from wheat grain
wheat bran			DEEM default = 1	B	from wheat grain
wheat flour			0.145 (prior EPA PF)	B	from wheat grain
wheat flour, cooked/processed			0.145 (prior EPA PF)	B	from wheat flour
wheat germ oil			DEEM default = 1	B	from wheat grain